New functions and addendum (Software Ver.1.30)

Due to software upgrade, the following functions have been added to this unit.

- H.264/MPEG-4 dual stream output can be provided when displaying live images.
- JPEG output can be provided to display video data on a cellular phone.
- MJPEG output can be provided to display video data on a mobile terminal.
  Compatible models: iPad®, iPhone®, iPod touch® (Since iOS 4.2.1)
  * iPad, iPhone, and iPod touch are registered trademarks of Apple Inc.
- VIQS functions are supported.
  * VIQS is a technology to enhance the image quality of specified area in the angular field of view for transmission. (H.264 only)
- The compatible services for the DDNS function are changed, and the "Viewnetcam" service is newly supported.

This document describes the settings of new functions and their restrictions. Refer to the descriptions in this document for details on these functions. Besides, refer to the Operating Instructions provided with this unit together.

About notations

The following notations are used when describing the functions limited for specified models.
The functions without the notations are supported by all models.

NP502: The functions with this notation are available when using the models WV-NP502, WV-NW502S.

SP306: The functions with this notation are available when using the models WV-SP306, WV-SP305, WV-SP302.

SF346: The functions with this notation are available when using the models WV-SF346, WV-SF342, WV-SF336, WV-SF335, WV-SF332.

SP105: The functions with this notation are available when using the models WV-SP105, WV-SP102.

* The model number is abbreviated in some descriptions in this document.

<Selection of the H.264/MPEG-4 dual stream output when displaying live images>

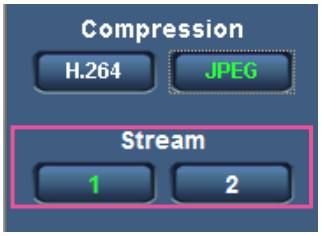
(Operating Instructions (PDF) - "Monitor images on a PC" - "About the "Live" page")

[Stream] button

These buttons will be displayed only when an H.264 (or MPEG-4) image is displayed.

[1] button: The letter "1" will turn green and images in the main area will be displayed in accordance with the setting of "H.264(1)" (or "MPEG-4(1)").

[2] button: The letter "2" will turn green and images in the main area will be displayed in accordance with the setting of "H.264(2)" (or "MPEG-4(2)").



<Operations from a cellular phone or a mobile terminal>

Monitor images on a cellular phone

It is possible to connect to the camera using a cellular phone via the Internet and monitor images (JPEG only) from the camera on the screen of the cellular phone. It is also possible to refresh images to display the latest image.

Important:

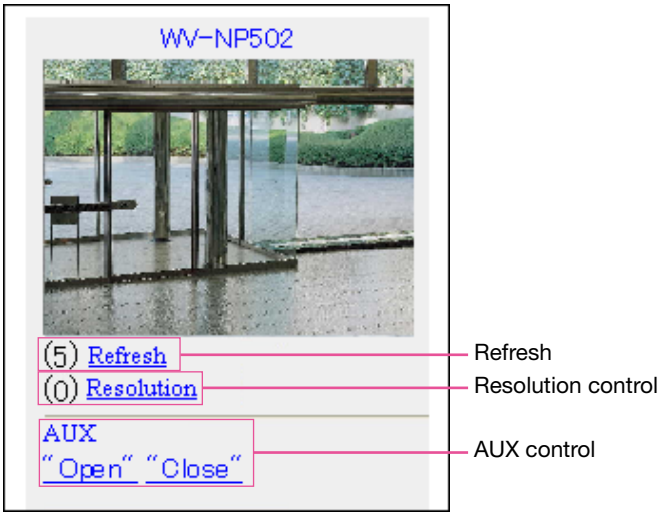
- When the authentication window is displayed, enter the user name and password. The default user name and password are as follows.
  User name: admin
  Password: 12345
  To enhance the security, change the password for the user "admin".
- If the cellular phone in use is not compatible with UTF-8 encode, it is impossible to display the screen correctly.

Note:

- It is necessary to configure the network settings of the cellular phone in advance to connect to the Internet and monitor images from the camera.

Step 1

Access to "http://IP address/mobile"* or "http://Host name registered in the DDNS server/mobile" using a cellular phone.
→ Images from the camera will be displayed.



(The screenshot is an example of NP502.)

Note:

- When the HTTP port number is changed from "80", enter "http://IP address : (colon) + port number/mobile"* in the address box of the browser.
- When using the DDNS function, access to "http://Host name registered in the DDNS server: (colon) + port number/mobile".
- When the authentication window is displayed, enter the user name of an administrator or user and password. Depending on the cellular phone in use, password entry may be required each time the screen is switched.
- It is impossible to transmit/receive audio using a cellular phone.
- Depending on the cellular phone in use, larger size images may not be displayed. In this case, selecting "Low" for "Image quality setting" of "JPEG" may sometimes solve this problem.
- Depending on the cellular phone in use or its contract plan, it may be impossible to access.

* IP address is the global WAN IP address of the router that can be accessed via the Internet.

Functions	Outline of functions	
Refresh	Refreshes the camera images by pressing the dial key "5".	
Resolution control	Changes the resolution by pressing the dial key "0". According to the image capture mode, the resolution will be changed as follows. NP502	
	• 1.3 mega pixel (VGA) [4:3]:	Changes the image capture size between 320x240 (default) and 640x480.
	• 1.3 mega pixel (800x600) [4:3]:	Changes the image capture size between 320x240 (default) and 800x600.
	• 1.3 mega pixel [16:9]:	Changes the image capture size between 320x180 (default) and 640x360.
	• 3 mega pixel [4:3]:	Fixed to 640x480
	• 3 mega pixel [16:9]:	Changes the image capture size between 320x180 (default) and 640x360.
	According to the aspect ratio, the resolution will be changed as follows. SP306 SF346 SP105	
	• Image in the aspect ratio of "4:3":	Changes the image capture size between 320x240 (default) and 640x480.
	• Image in the aspect ratio of "16:9":	Changes the image capture size between 320x180 (default) and 640x360.
AUX control*	Controls the AUX terminal. NP502 SP306 SF346 These buttons will be displayed only when "AUX output" is selected for "Terminal 3" on the setup menu. NP502	

Note:
- Some cellular phones cannot change the image capture size even when resolution is changed by resolution control.

* When "User auth." is set to "On", only users with the access level of "1. Administrator" or "2. Camera control" will be displayed.

Monitor images on a mobile terminal

It is possible to connect to the camera using a mobile terminal via the Internet and monitor images (MJPEG only) from the camera on the screen of the mobile terminal. It is also possible to refresh images to display the latest image.

- The compatible mobile terminals are shown as follows. (As of April, 2011)
  iPad, iPhone, iPod touch

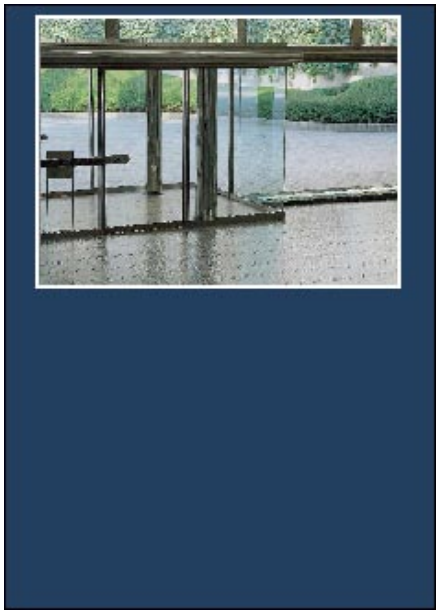
Important:
- When the authentication window is displayed, enter the user name and password. The default user name and password are as follows.
  User name: admin
  Password: 12345

To enhance the security, change the password for the user "admin".

Step 1

Access to "http://IP address/cam"* or "http://Host name registered in the DDNS server/cam" using a mobile terminal.

→ Images from the camera will be displayed.



Note:

- When the HTTP port number is changed from "80", enter "http://IP address : (colon) + port number/cam"* in the address box of the browser.
- When using the DDNS function, access to "http://Host name registered in the DDNS server: (colon) + port number/cam".
- It is impossible to transmit/receive audio using a mobile terminal.
- Depending on the mobile terminal in use or its contract plan, it may be impossible to access.

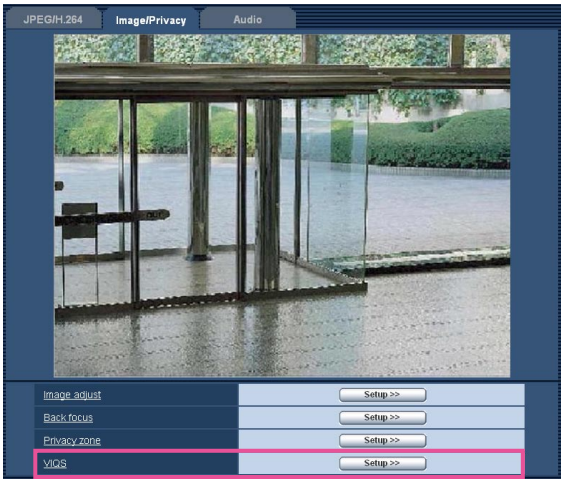
* IP address is the global WAN IP address of the router that can be accessed via the Internet.

<VIQS>

(Operating Instructions (PDF) - "Configure the settings relating to images and audio [Image/Audio]" - "Configure the settings relating to images, back focus and the privacy zone [Image/Privacy]") NP502
(Operating Instructions (PDF) - "Configure the settings relating to images and audio [Image/Audio]" - "Configure the settings relating to images, focus and the privacy zone[Image/Privacy]") SP306 SF346
(Operating Instructions (PDF) - "Configure the settings relating to image quality, extra zoom and the privacy zone [Image/Privacy]") SP105

Click the [Image/Privacy] tab on the "Image/Audio" page.

[VIQS]
Click the [Setup>>] button to display the setup menu that can configure the settings relating to VIQS. The setup menu will be displayed in a newly opened window.
(The screenshot is an example of NP502.)

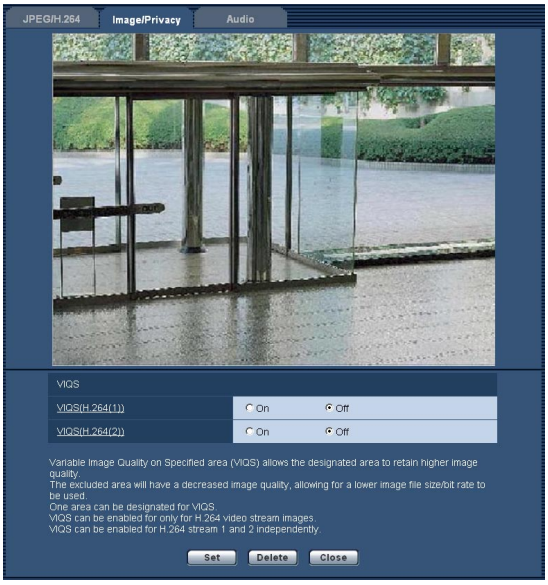


Configure the VIQS setting

Click the [Setup >>] button of "VIQS" on the [Image/Privacy] tab of the "Image/Audio" page.
It is possible to enhance the image quality of the specified range within a shooting area (image).
It is also possible to moderate the image data size by lowering the image quality of other areas.
The VIQS setting is available only for H.264 images.
When checking the images after configuring the VIQS setting, display the H. 264 images on the "Live" page.

[VIQS(H.264(1))]
Select "On" or "Off" to determine whether or not to activate the VIQS function for the transmitted H.264(1) images.
Default: Off

[VIQS(H.264(2))]
Select "On" or "Off" to determine whether or not to activate the VIQS function for the transmitted H.264(2) images.
Default: Off


JPEG/H.264
Image/Privacy
Audio
VIQS
VIQS(H.264(1))
On
Off
VIQS(H.264(2))
On
Off
Variable Image Quality on Specified area (VIQS) allows the designated area to retain higher image quality.
The excluded area will have a decreased image quality, allowing for a lower image file size/bit rate to be used.
One area can be designated for VIQS.
VIQS can be enabled for only for H.264 video stream images.
VIQS can be enabled for H.264 stream 1 and 2 independently.
Set
Delete
Close

Important:
- When the VIQS setting is activated and the setting value for "Image capture mode" or "Aspect ratio" is changed from "4:3" to "16:9" on the [JPEG/H.264] tab, make sure that the VIQS setting value does not exceed the maximum designated range.

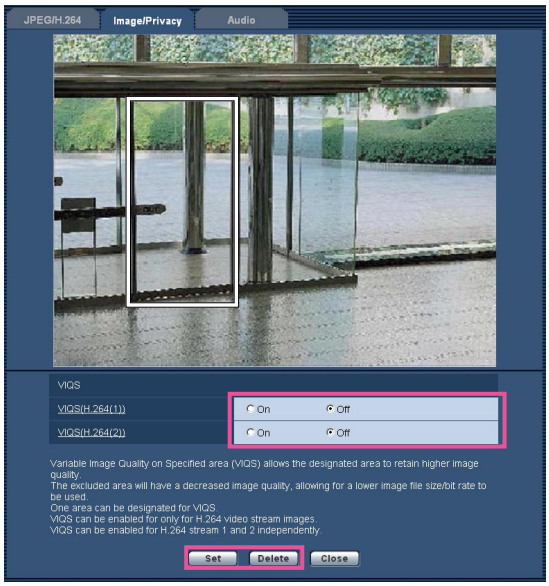
Configure the VIQS area setting

The VIQS area is specified by following the steps below.

Step 1

Drag the mouse on the screen to specify the area.

→ The specified area is displayed with a white frame.


JPEG/H.264
Image/Privacy
Audio
VIQS
VIQS(H.264(1))
VIQS(H.264(2))
On
Off
On
Off
Variable Image Quality on Specified area (VIQS) allows the designated area to retain higher image quality.
The excluded area will have a decreased image quality, allowing for a lower image file size/bit rate to be used.
One area can be designated for VIQS.
VIQS can be enabled for only for H.264 video stream images.
VIQS can be enabled for H.264 stream 1 and 2 independently.
Set
Delete
Close

Note:

- A selectable area is limited.

Step 2

Select "On"/"Off" to activate/deactivate a distributed image of "VIQS (H.264 (1))" or "VIQS (H.264 (2))".

Step 3

Click the [Set] button.

→ This unit is updated with the setting contents. To delete the specified area, click the [Delete] button.

Important:

- No setting contents are determined unless the [Set] button is clicked.
  To check the window after VIQS setting, display an H.264 image on the "Live" page.

<DDNS>

(Operating Instructions (PDF) - "Configuring the network settings [Network]" - "Configure the settings relating to DDNS [DDNS]")

Click the [DDNS] tab on the "Network" page.
To access this camera via the Internet, it is necessary to configure the settings for the DDNS function. When activating the DDNS function using the camera, the following DDNS service is available.

- Viewnetcam

Important:

- Before using the DDNS service, it is necessary to perform the port forwarding setting for the router.

Note:

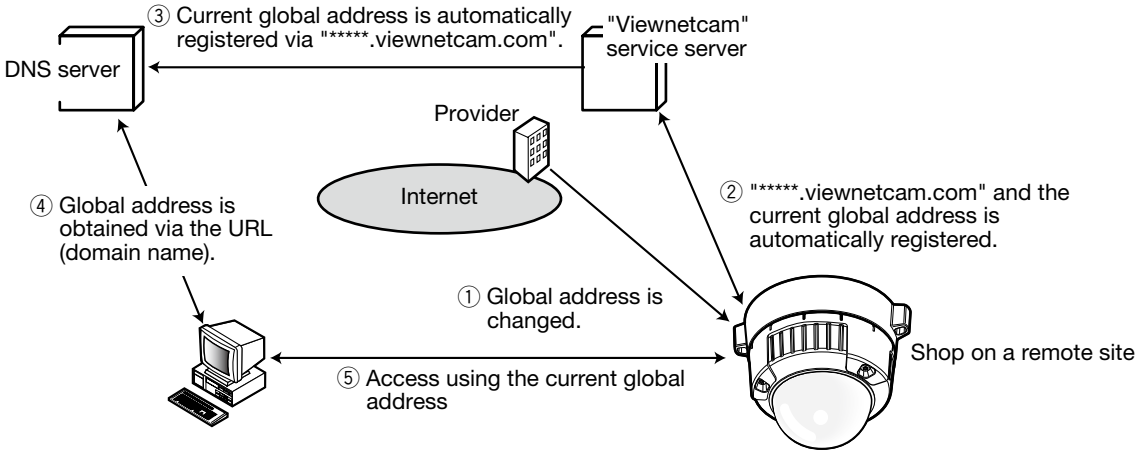
- "Viewnetcam" is a Dynamic DNS service designed for use with Panasonic Network Cameras. Refer to the "Viewnetcam" website (http://www.viewnetcam.com/) for further information about the service.

About DDNS services (IPv4/IPv6)

By using a DDNS service, it becomes possible to view camera images via the Internet.
The DDNS service associates dynamic global addresses and domain names. It is possible to configure the settings for the "Viewnetcam". In most of the DNS services offered by providers, global addresses are not static but dynamic. Therefore, access to the camera via an old global address may be invalidated after a certain period of time. Either of the following services is required when accessing a camera whose global address is not static via the Internet.

- DDNS service (such as "Viewnetcam")
  It is possible to access via a registered and static domain name (example: *****.viewnetcam.com) even after the global address is changed. Enrollment in a domain name service is required even when using the IPv6 connection.
  Refer to the "Viewnetcam" website (http://www.viewnetcam.com/) for further information about the service.
- Static IP address service (such as a service offered by a contracted provider)
  In this service, global addresses are static (not changed).

Configuration of the DDNS service (Example of the "Viewnetcam" service)


③ Current global address is automatically registered via "*****.viewnetcam.com".
"Viewnetcam" service server
DNS server
Provider
Internet
② "*****.viewnetcam.com" and the current global address is automatically registered.
④ Global address is obtained via the URL (domain name).
① Global address is changed.
Shop on a remote site
⑤ Access using the current global address

1. The contracted provider allocates a global address to the router (or the camera). The global address is not static but dynamic.
2. If you are enrolled in "Viewnetcam", the unique "domain name" (example: *****.viewnetcam.com) will be allocated. The "Viewnetcam" service server automatically manages the domain name of camera and the global address of router (or camera) when a camera automatically notifies the service server of the global address.
3. The "Viewnetcam" service server registers the global address and the domain name of router (or camera) in the DNS server.
4. By entering the URL (including the domain name) on the web browser when accessing the camera via the Internet, the DNS server identifies the registered global address of router (or camera).
5. The identified global address is used for accessing the router (or camera) to monitor images.

Note:

- Refer to the contracted provider whether the current IP address is static or not.
- Depending on the provider, local addresses may be allocated. In this case, the DDNS service is unavailable. Refer to the contract provider for further information.

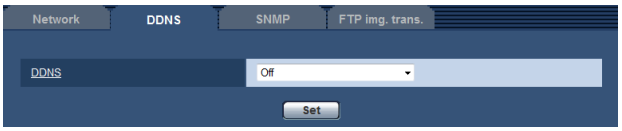
[DDNS]

Select the DDNS service to determine whether or not to use DDNS.

Off: Does not use the DDNS function.

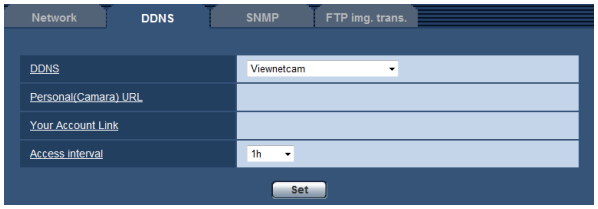
Viewnetcam: Uses the "Viewnetcam" service.

Default: Off



When using the "Viewnetcam" service

[Personal(Camera) URL]
The URL of the camera registered for "Viewnetcam" will be displayed.
When performing the initial settings, the temporary URL will be displayed by clicking the [Set] button.



[Your Account Link]
When the displayed URL is clicked, the registration window for the "Viewnetcam" service will be displayed in a newly opened window. Register the information in the registration window to enroll in the "Viewnetcam" service.

[Access interval]
Select the interval to access the "Viewnetcam" service server to check the IP address and the host name from the following.
10min/ 20min/ 30min/ 40min/ 50min/ 1h
Default: 1h

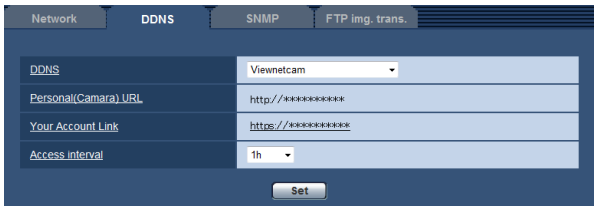
Procedure to register information for the "Viewnetcam" service

Step 1

Click the displayed URL "https://**********" of "Your Account Link".
→ The registration window for "Viewnetcam" will be displayed in a newly opened window.

Step 2

Register the information for "Viewnetcam" by following the instructions of the wizard.
→ When the registration window is not displayed, check that the PC is being connected to the Internet, and click the reload button of the browser.
When the message "The new camera is successfully registered to Viewnetcam.com" is displayed, close the registration window.
The URL selected at the time of registration can be used for camera access. However, this URL is unavailable when accessing the camera from the PC connected to the same network (LAN).



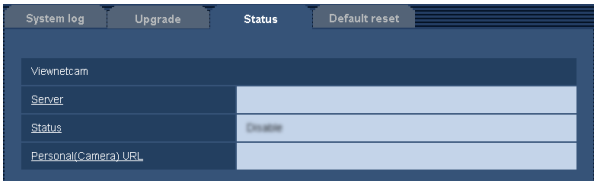
Note:
- When the registration for the "Viewnetcam" service is completed, the URL of the camera registered for "Personal(Camera) URL". It may take up to around 30 minutes until the URL of the registered camera is validated.
- To cancel the enrollment in the "Viewnetcam" service, access the "Viewnetcam" website (http://www.viewnetcam.com/) later.
- It is possible to check the information registered for the "Viewnetcam" service by accessing the URL displayed beside "Your Account Link". When the URL is not displayed, check that the PC is being connected to the Internet, and click the [Set] button.
- If access often fails due to the change in the global address of router, set a smaller value for "Access interval".

Checking the information registered for the "Viewnetcam" service

It is possible to check if the camera has been registered for the "Viewnetcam" service.

Check the status [Status] (Operating Instructions (PDF) - "Maintenance of the camera [Maintenance]")

Click the [Status] tab of the "Maintenance" page.
The status of this camera can be checked on this page.



[Viewnetcam]

Server: The URL of the "Viewnetcam" service server will be displayed.
Status: The registration status for the "Viewnetcam" will be displayed.
Personal(Camera) URL: The URL of the camera registered for "Viewnetcam" will be displayed.

Note:

- Refer to the "Readme" file on the provided CD-ROM for further information about the contents of the displayed statuses (relating to the "Viewnetcam" service). Or refer to our website (http://panasonic.net/pss/security/support/info.html) for further information.

The following are added to the system logs.

Error indications relating to "Viewnetcam" (Operating Instructions (PDF) - "About the displayed system log")

The following are added to the system logs.

Category	Indication	Description
Viewnetcam server error	Failed to resolve the Viewnetcam server address from DNS.	• The designated IP address of the DNS may be incorrect. Check if the DNS settings are configured correctly. • The DNS server may be down. Ask the network administrator.
Connection error	No response from the Viewnetcam server.	• The "Viewnetcam" server may be down. Ask the network administrator.
	File transfer error.	
Internal error	Undefined error.	• An error relating to the "Viewnetcam" function occurred. Check if the "Viewnetcam" settings are configured correctly.

<About the viewer software>

(Operating Instructions (PDF) "Viewer software" and other sections)

The viewer software has been upgraded. When referring to the manuals supplied to this unit, substitute "Network Camera View4" and "nwcv4setup.exe" with "Network Camera View4S" and "nwcv4Ssetup.exe" respectively.

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